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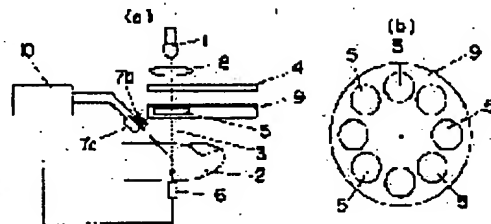
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(54) CONCENTRATION MEASURING APPARATUS FOR HUMOR COMPONENT

(57)Abstract:

PROBLEM TO BE SOLVED: To achieve a non-invasive measurement of the concentration of humor components free from the effect of personal difference.

SOLUTION: This humor component concentration measuring apparatus performs a non-invasive measurement of the concentration of humor components in vivo. The apparatus comprises a light source 1 to output near infrared rays for irradiating a part 2 to be measured, light receiving means 6, 7a and 7b to separately detect light transmitted through the part 2 to be measured and light reflected on the part to be measured and an arithmetic processing means 10 to measure the concentration of a desired humor component by an arithmetic processing based on an absorbance signal of the transmission light and the absorbance signal of the reflected light obtained by the light receiving means. This enables measurement by the transmission light on one hand and by the reflected light on the other and the results of the measurement of the absorbance by the transmission light and those of the measurement of the absorbance by the reflected light are generalized to measure the concentration of the humor components.



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(54) 【発明の名称】 体液成分濃度測定装置

(57) 【要約】

【課題】 個体差の影響を受けることなく体液成分濃度測定を非侵襲で行う。

【解決手段】 生体中の体液成分濃度を非侵襲的に計測する体液成分濃度測定装置である。該測定部位2照射用の近赤外光を出力する光源1と、被測定部2を透過した光と被測定部で反射した光とを夫々検出する受光手段6、7a、7bと、受光手段で得られた透過光の吸光度信号と反射光の吸光度信号とからの演算処理で目的体液成分濃度を検査する演算処理手段10とからなる。透過光による測定と反射光による測定とを行うことができ、透過光による吸光度の測定結果と反射光による吸光度の測定結果とを総合して体液成分濃度の検査を行うことができる。

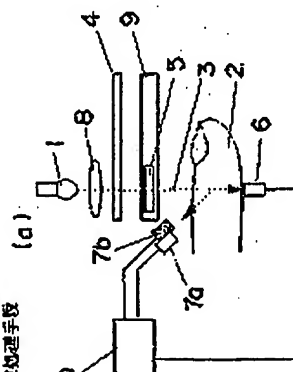
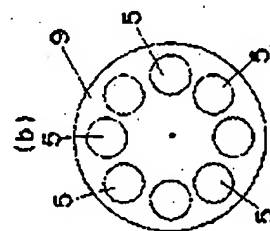


図1 図2 図3 図4 図5 図6 図7 図8 図9 図10 図11 図12 図13 図14 図15 図16 図17 図18 図19 図20 図21 図22 図23 図24 図25 図26 図27 図28 図29 図30 図31 図32 図33 図34 図35 図36 図37 図38 図39 図40 図41 図42 図43 図44 図45 図46 図47 図48 図49 図50 図51 図52 図53 図54 図55 図56 図57 図58 図59 図60 図61 図62 図63 図64 図65 図66 図67 図68 図69 図70 図71 図72 図73 図74 図75 図76 図77 図78 図79 図80 図81 図82 図83 図84 図85 図86 図87 図88 図89 図90 図91 図92 図93 図94 図95 図96 図97 図98 図99 図100